# Vishnu Sai Teja Nagabandi

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## EDUCATION

### IIIT NAGPUR
BTech in Computer Science
Expected by 2025
Nagpur , Maharashtra
Cum. GPA: 8.46 / 10.0
Major GPA: 9.33 / 10.0

### SRI CHAITHANYA
Senior Secondary Education
Graduated in 2021
Hyderabad , Telangana
Overall Percentage: 98.2 %

## LINKS

Github:// **Vishnu-sai-teja**
LinkedIn:// **Vishnu Sai Teja Nag**
X(Twitter):// **@NagSate**
Kaggle:// **Vishnu Sai Teja N**

## COURSEWORK

### UNDER GRADUATE
Mathematics in Data Science
Numerical Methods and Probability
Discrete Mathematics and Graph Theory
Application Programming
Object Oriented Programming
Computer Networks
Computer System Organization
Operating System
Theory Of Computation
Compilers
Database Management Systems
Data Structures
Cloud Computing Applied Sciences
Machine Learning

## SKILLS

**Programming Language**
•C++ • Python • Basic - Shell
• Java • Basic-Rust • CSS • JS
**Frameworks**
LangChain • PyTorch • Basic - Django
• MySQL • Basic - PHP
**Libraries**
Numpy • Pandas • Matplotlib
Sci-kit Learn • nltk •Basic - fastai

## LANGAUGES

**Proficient**
English•Hindi•Telugu
**Novice**
German

## EXPERIENCE

### AIDASH Data Science Intern
April 2024 - Present | Bangalore, India

- Implemented an end-to-end asset geotagging pipeline using street view imagery, optimizing **object detection, depth** and **height estimation,**
- Designed and implemented **asynchronous processing** and **parallelization**, significantly boosting pipeline efficiency and maximizing hardware resource utilization.
- Fine-tuned detection models for specific assets, achieving faster processing times and improved accuracy in geolocating assets.

### VLIPPR ML and Data Science Intern
Nov 2023 - Feb 2024 | New Delhi, India

- Contributed to Vaanee, an audio model specializing in Indian languages
- Led efforts in the preprocessing of intricate audio data
- Proposed and implemented techniques for audio **pre** and **post processing** to enhance the accuracy of audio transcription.

## PROJECTS

### STAFFUSION
PyTorch | Python

- Implemented an end-to-end **stable diffusion** pipeline for **Text-to-image**.
- Integrated the **UNet, CLIP,** and **Vision Transformers** for the pipeline.
- Utilizing pretrained weights and implementing fine-tuning with adapters to enhance efficiency.
- Achieved a complete stable diffusion pipeline for high-quality image generation.

GitHub Repository of Staffusion

### CANCER DETECTION USING GANS
Implemented using GANs

- Developed a Generative Adversarial Network (GAN) to enhance cancer detection dataset and accuracy from medical images.
- Achieved improved diagnostic performance through synthetic data generation and model training.

### INDIAN LANGUAGE DETECTION
Implemented on 2 lakh+ audio files

- Considered a dataset of major Indian languages with about 2 lakh+ audio files.
- Implemented **Preprocessing** and **Segmentation** to rule out outliers effectively.
- Achieved an accuracy of 88.6 % on the language dataset.

Kaggle Notebook on Language Detection

## ACHIEVEMENTS AND CONTRIBUTIONS

- **Bank Customer Churn Prediction**
  Kaggle Ranking: 130/3000
  Predicted churn using the **Bank Churn Dataset** with 10,000+ data points and 14+ features. Applied CatBoost and hybrid models, achieving a score of 0.8952.
  Kaggle Notebook
- **Tantrafiesta 23**
  Developed the Fiesta website and assisted in securing sponsors.